

SEGA

SINGLE UNIT PERISCOPE

ASSEMBLY INSTRUCTIONS
AND PARTS CATALOG

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SEGA

OFFERS YOU THE UNBEATABLE COMBINATION OF QUALITY AND PLAY APPEAL IN AMUSEMENT GAMES

ASSEMBLY INSTRUCTIONS

Fig. 3 shows the Assembled Periscope.

The assembly kit contains two sizes of bolts with washers attached to heads and nuts.

No additional washers are necessary with this type of bolts.

The small bolts are for the small angle iron, the thicker bolts are for the large.

Assembly Order :

1. Assemble the back frame first as shown in Fig. 5.
2. Assemble the front frame as shown in Fig. 4.
3. Assemble the main side frames (left and right) and then connect, with screws, the rear and front framework to the side-frames as shown in Fig. 4.
4. Put the assembled roof frame on the top with the two extended bars (PS-1709) facing front. (Bars used for mounting periscope) See Fig. 4.
5. Screw the wood bars (PS-1728 and 1729) as shown in Fig. 4.
6. Mount the small angle bars (PS-1716) on the middle of the side frames as shown in Fig. 4.
7. Mount the small angles (PS-1717) from the small middle bar (PS-1716) to the bottom bar (PS-1705) as shown in Fig. 4.
8. Screw the back ground unit (target screen) on to the top frame as shown in Fig. 7.
9. Screw the roof on as shown in Fig. 6.
10. Mount the sub-assembled target unit (Chain Unit). This must be mounted so that the ships are at the correct height, when seen through the periscope as shown in Fig. 1. Make sure that the chain unit is not bent and the chain is freely moving when mounted. The side with the two drop-coils on it must be to the rear (Fig. 9). Make sure that the plunger stoppers on the coils are not bent inwards (Fig. 9).
11. Put the electric unit on the left inner side of the frame and screw it to the frame (Fig. 11).
12. Put the front door unit into the front frame, as shown in Fig. 8.
13. Put all the bulbs (6 Volt) into the sea base and put the sea base on top of the middle bars of the side frames—See Fig. 1 and Fig. 6.

14. Put the sea model (PS-0739) on the sea base as shown in Fig. 1 and 3.
15. Put the periscope on the top front bars, screw the periscope bracket (PS-0721) to the bottom of the periscope and bring it into proper position. The bracket must be horizontal. Drill two holes through the front panel and tighten this bracket. Line up the periscope and tighten the periscope base plate with bolts and nuts to the top frame. Check that the periscope is easy to turn by its handle, as shown in Fig. 10. Put the periscope cover board into the slot above the top wood bar. and fasten with wood screws as shown in Fig. 3.
16. Install the sub-assembled light box to the front pillar, screwing it on the frame from the rear side. See Fig. 2.
17. Plug all plugs into the electric unit (See Fig. 11). and check test the machine for proper operation. When the machine is working correctly, install the lower wooden frames left and right. See Fig. 14. Use the right size chromed bolts (there are different lengths) and from inside the correct size brackets (there are three kinds of brackets). then, put the upper wooden frame left and right as well as lower framework. See Fig. 13.
18. Put the back plate panel to the back frame. See Fig. 3.
19. Put the rear top plate (PS-0732) on top. See Fig. 3.
20. Insert the window glass to the wooden frame sash. See Fig. 1.
21. Screw the aluminum angles (PS-0734 & 0735) on the left and right front edges. See Figs. 1 and 3.

NUMBER SHOWS ASSEMBLY ORDER

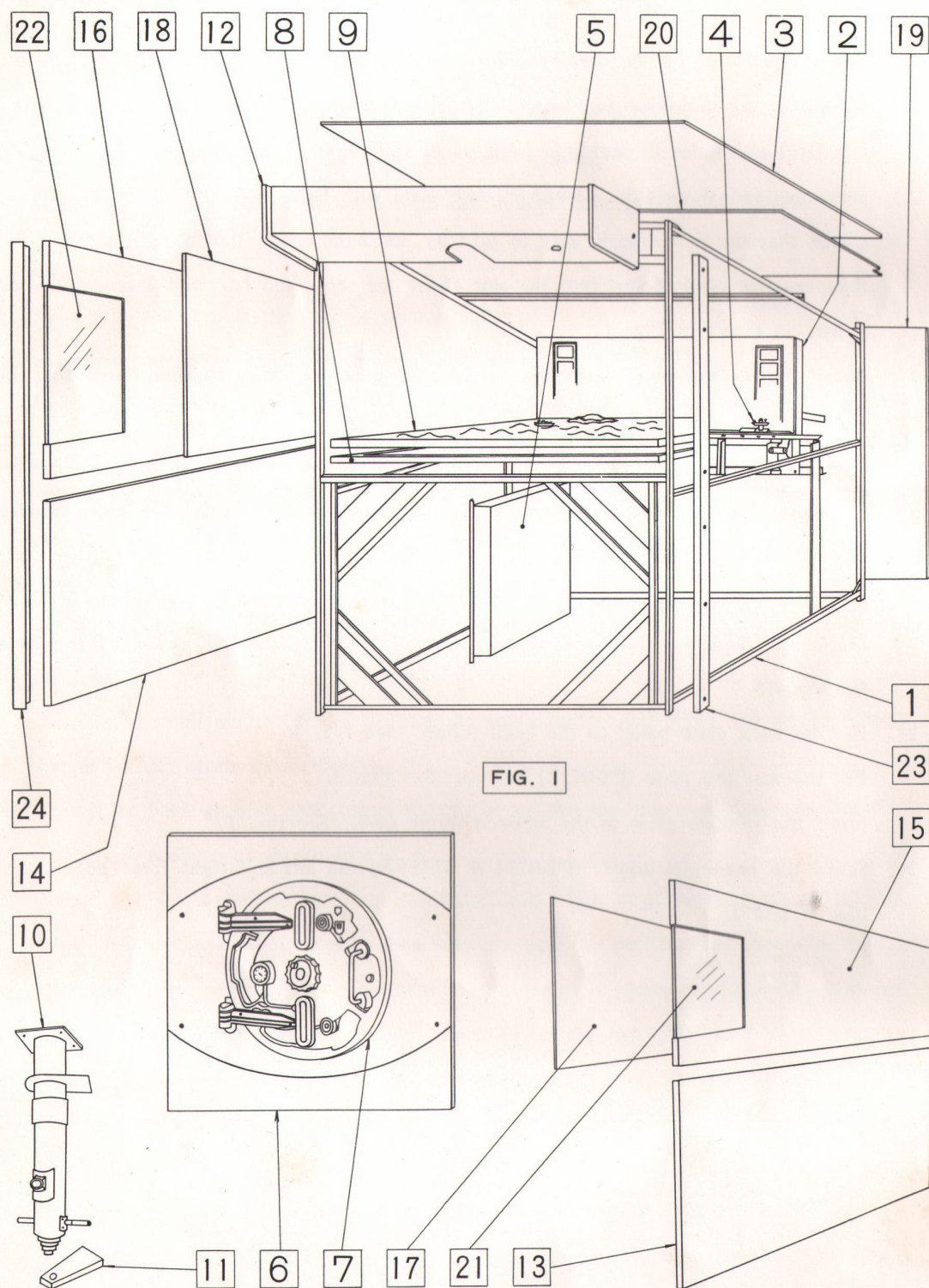
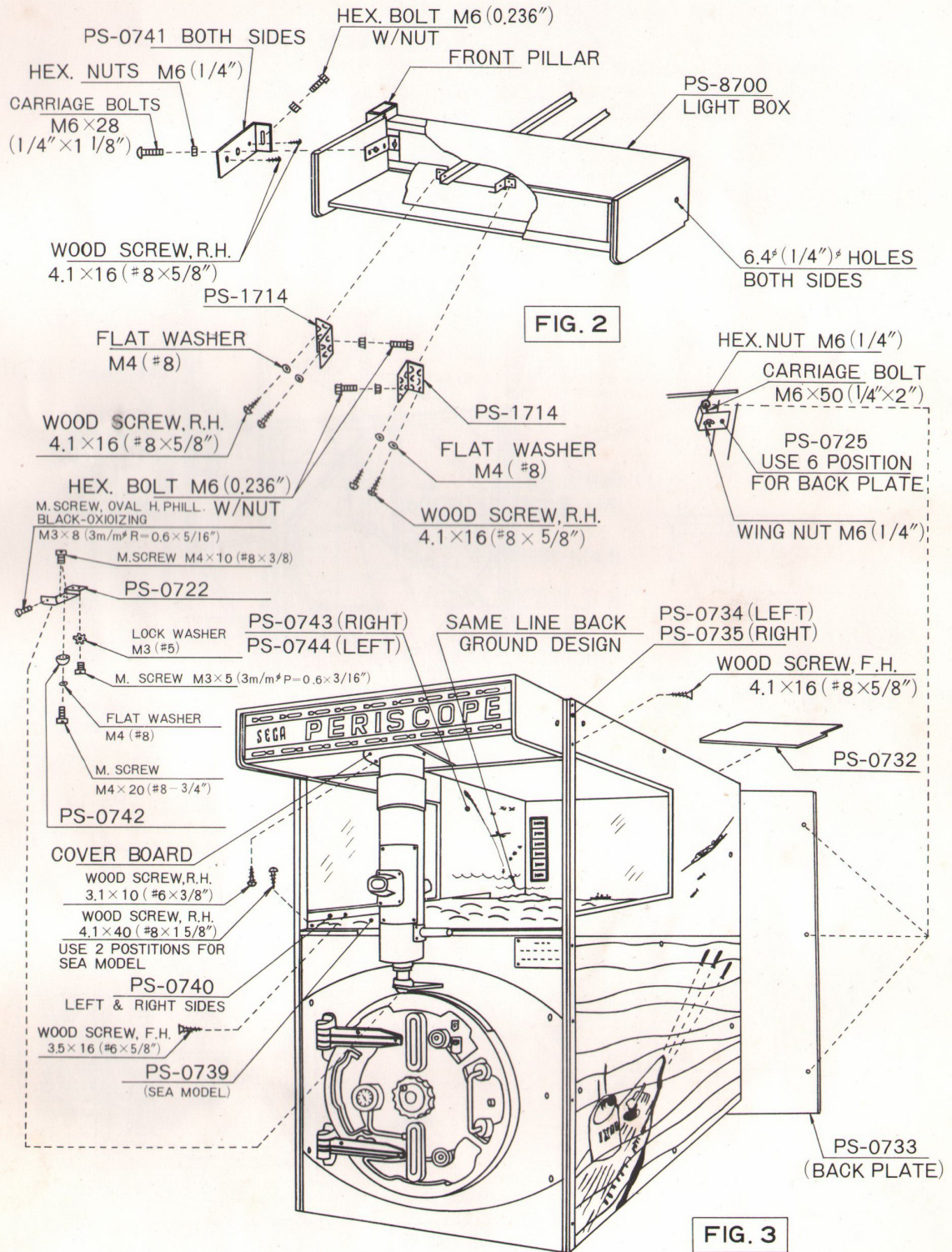
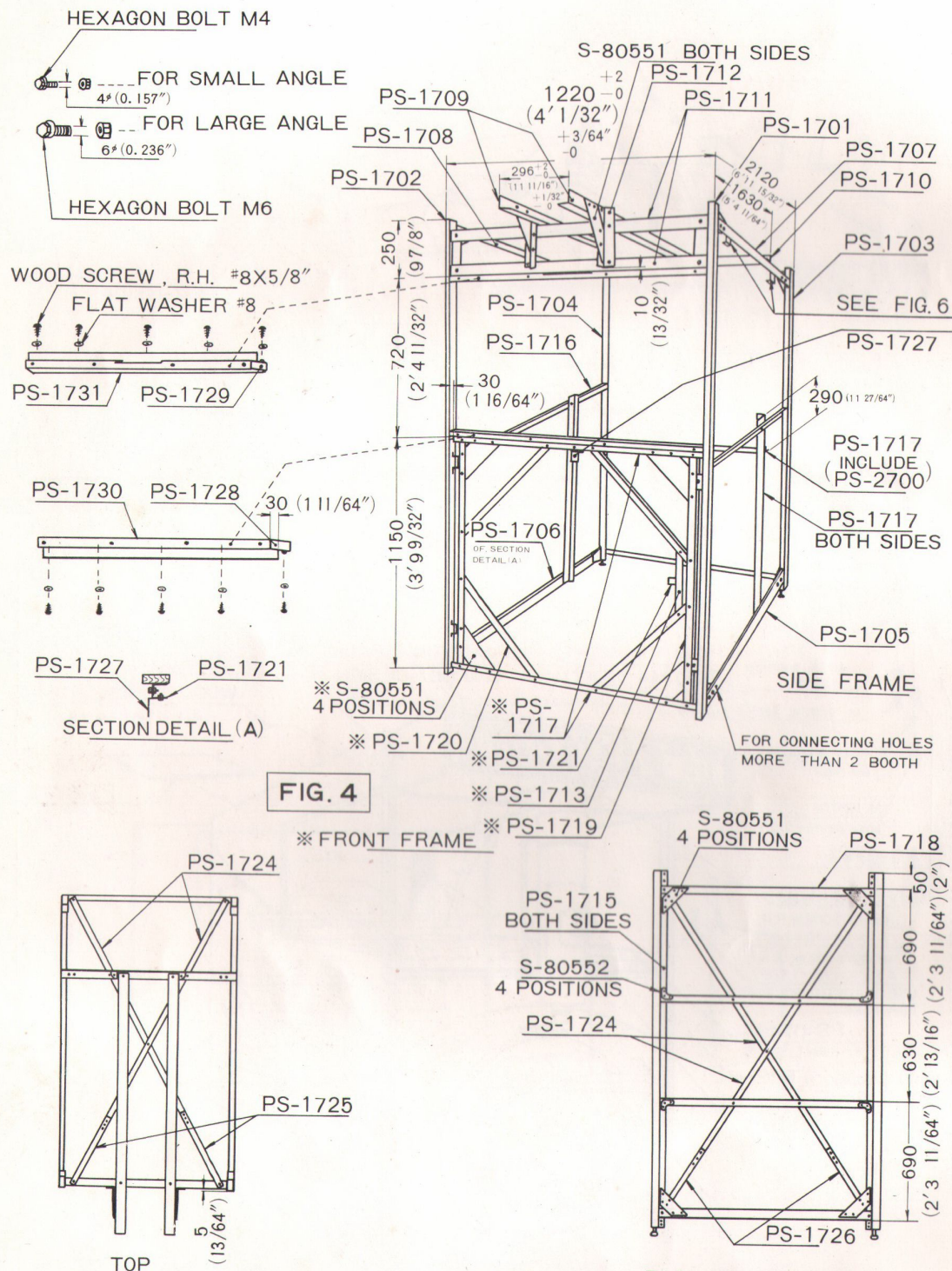


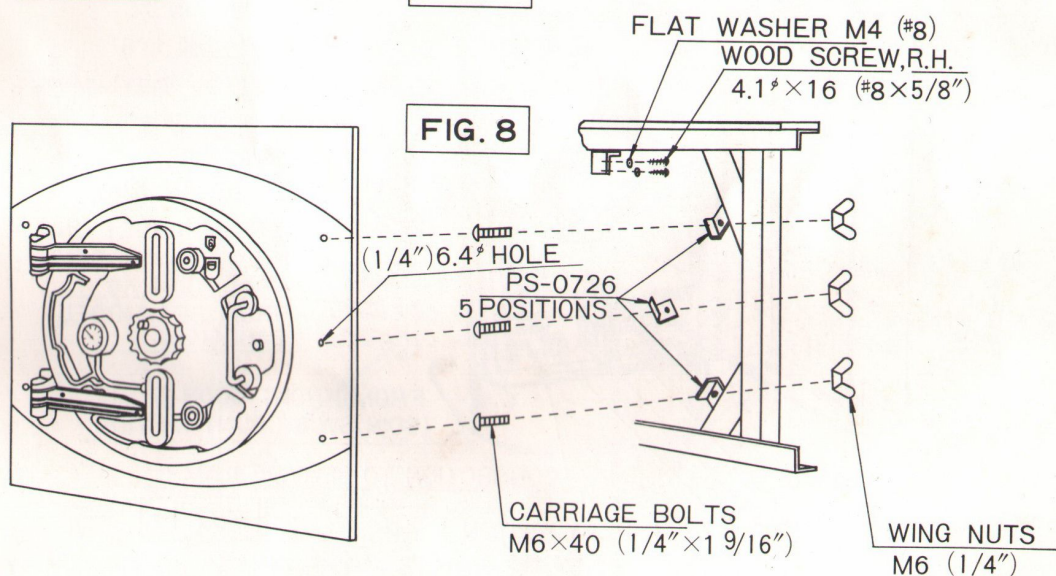
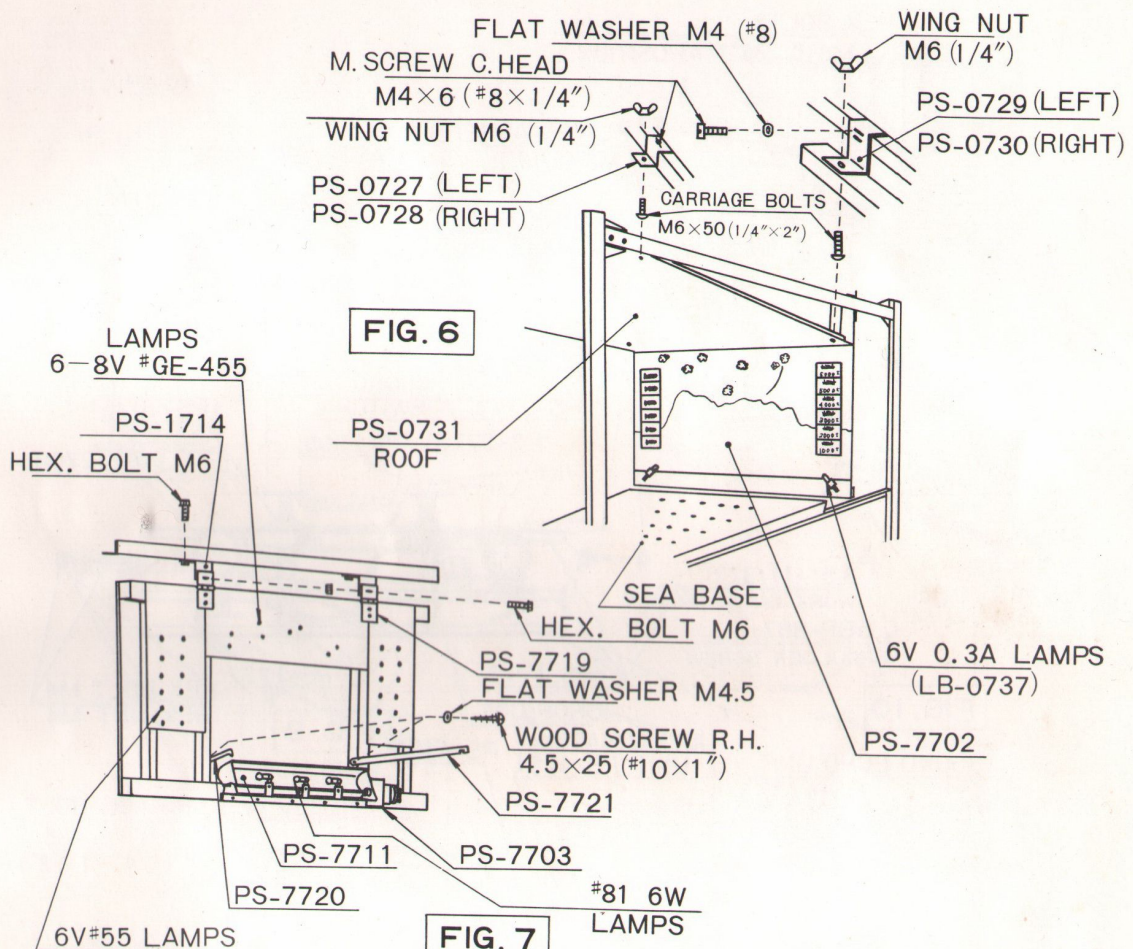
FIG. 1

SEGA PARTS CATALOG

M.Machine	R.Round	F.Flat
T.Truss	C.Cheese	P.Pan
H.Head	Phill.Phillips	Ext.External
Hex.Hexagon	Ass'yAssembly	







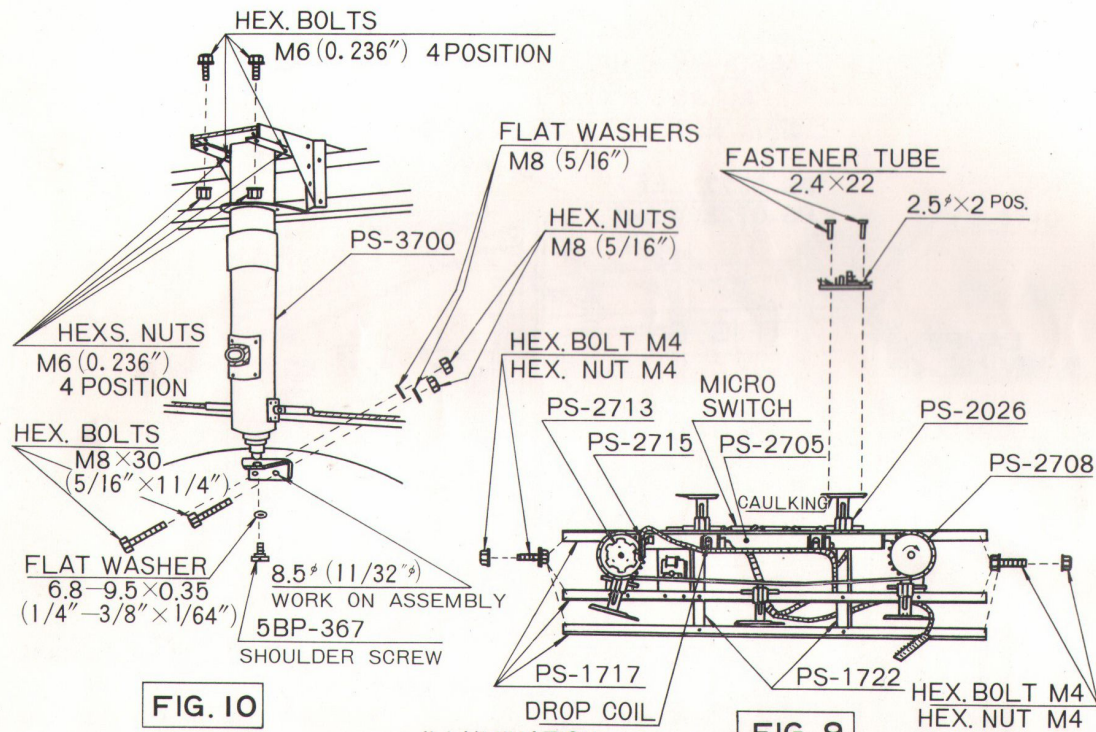


FIG. 10

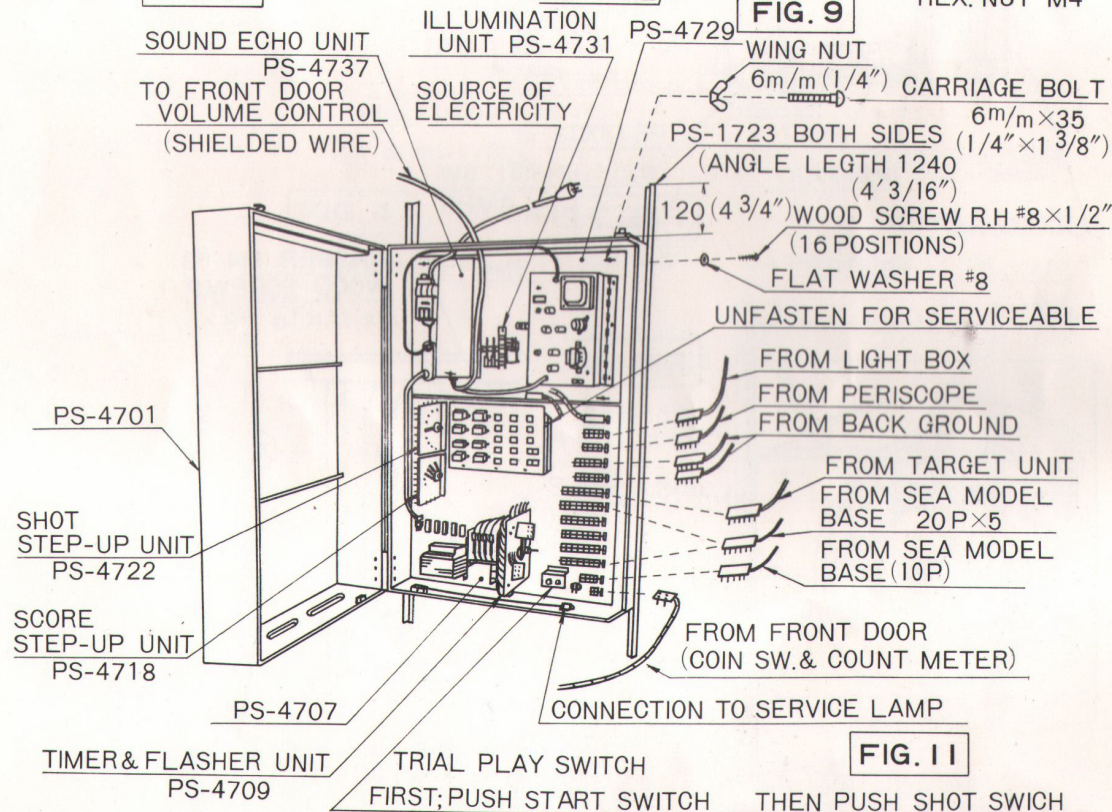
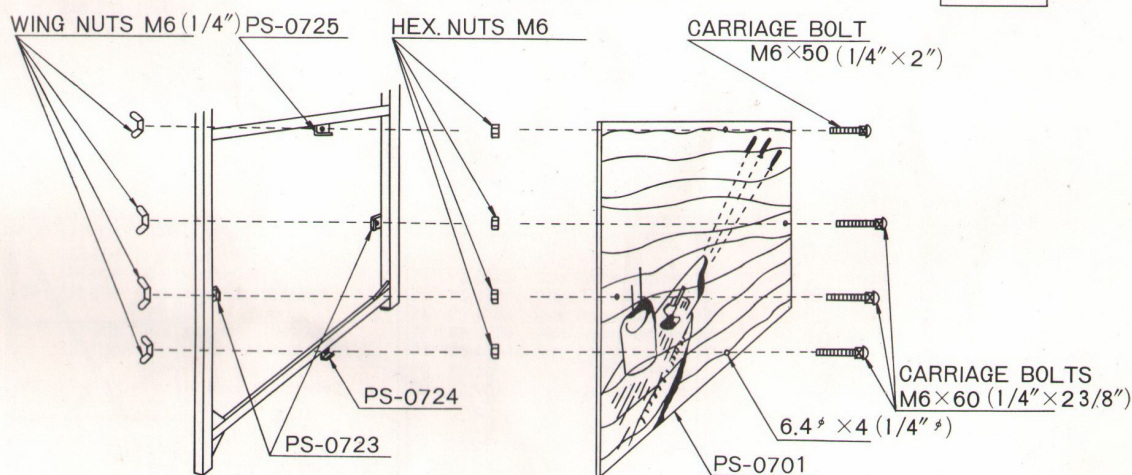
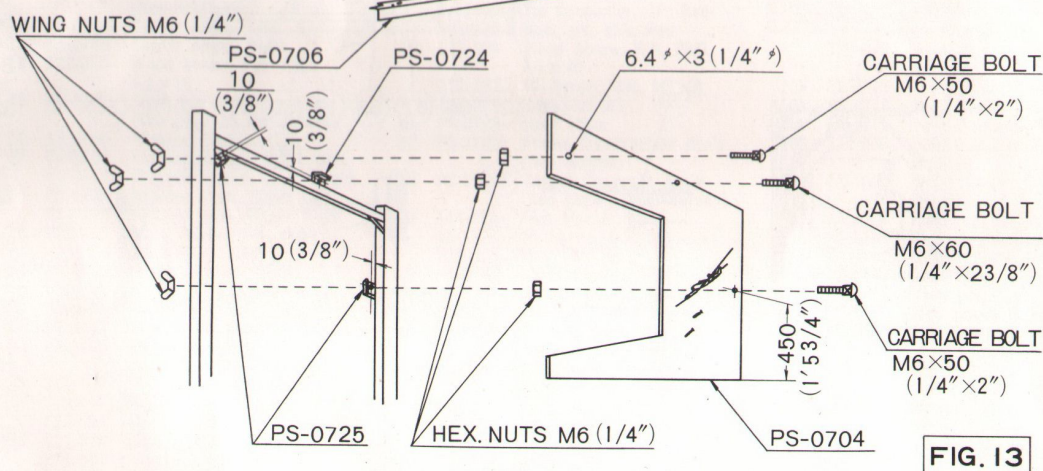
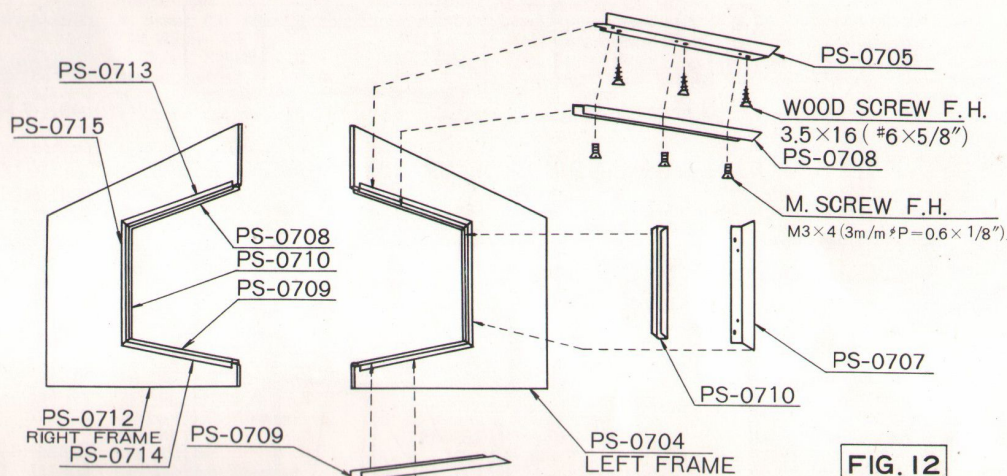
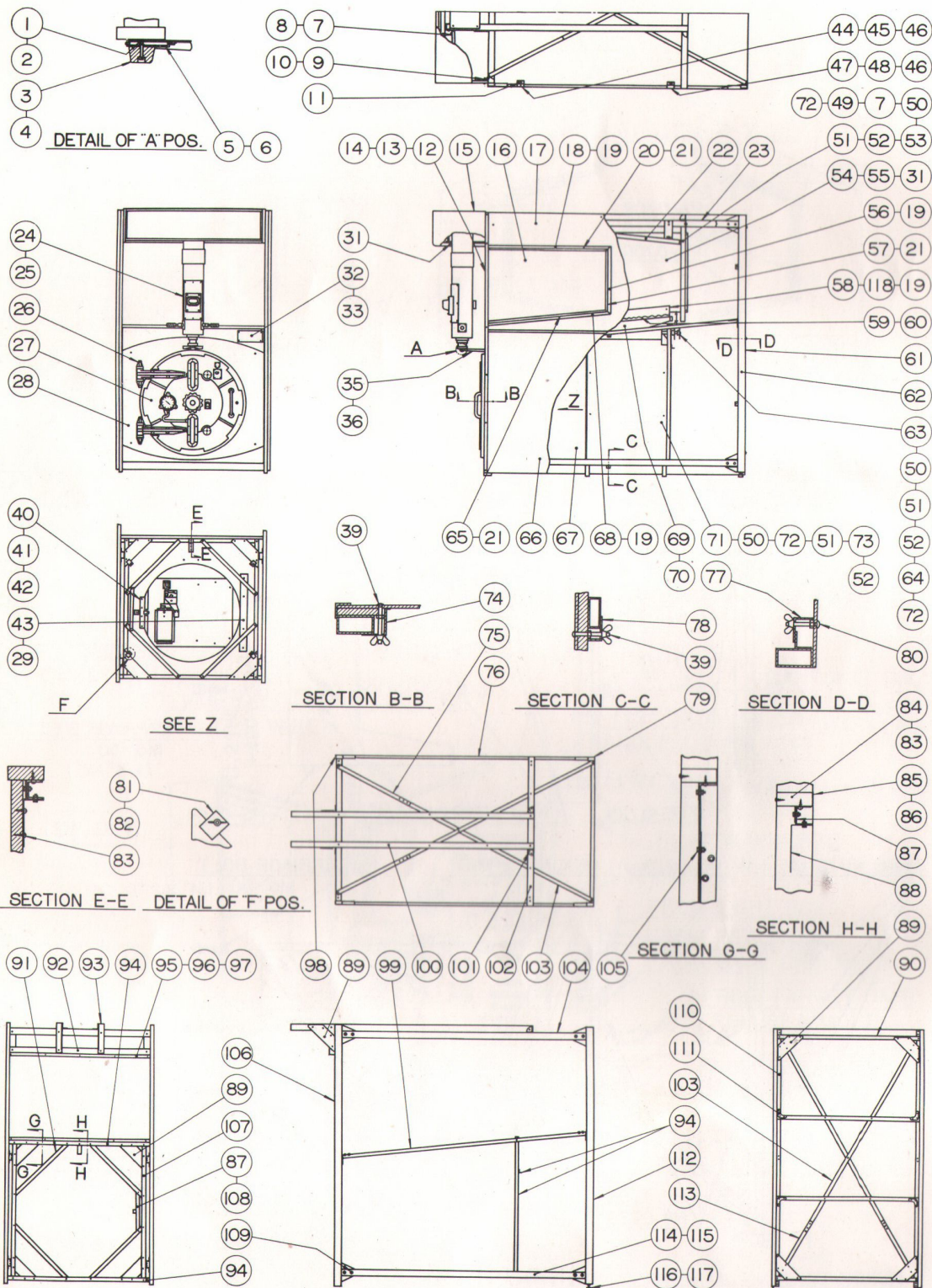


FIG. 11

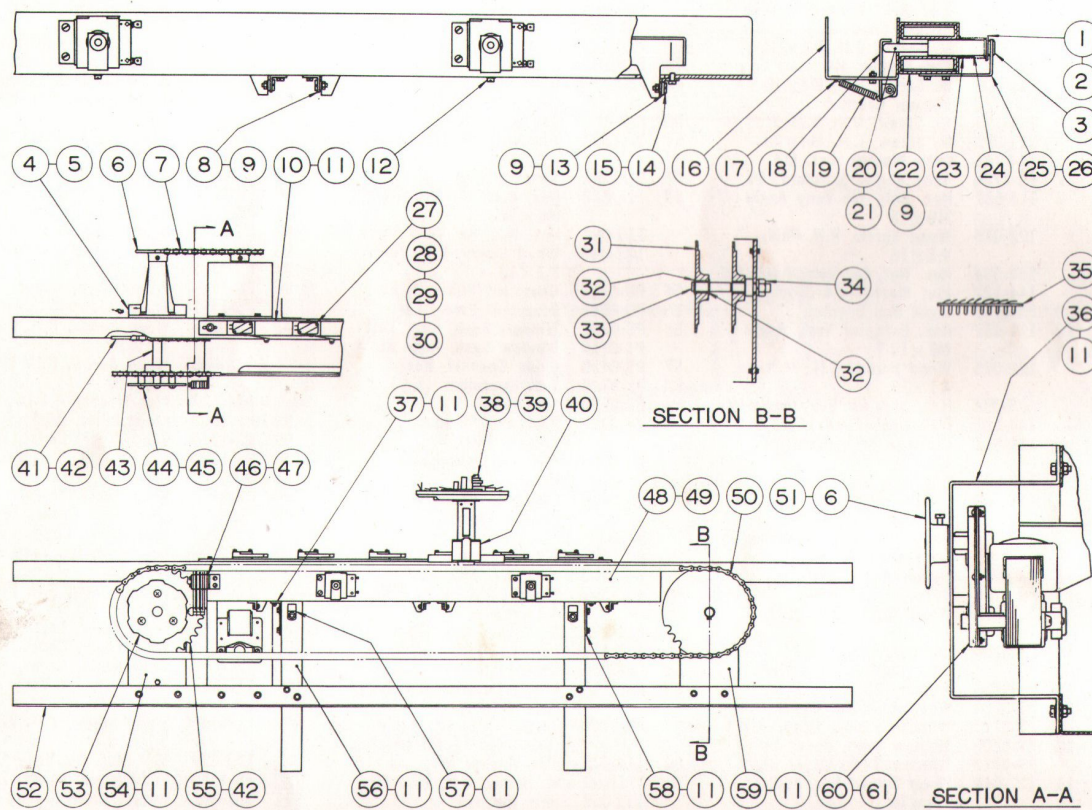




PARTS LIST CABINET ASSEMBLY (2)

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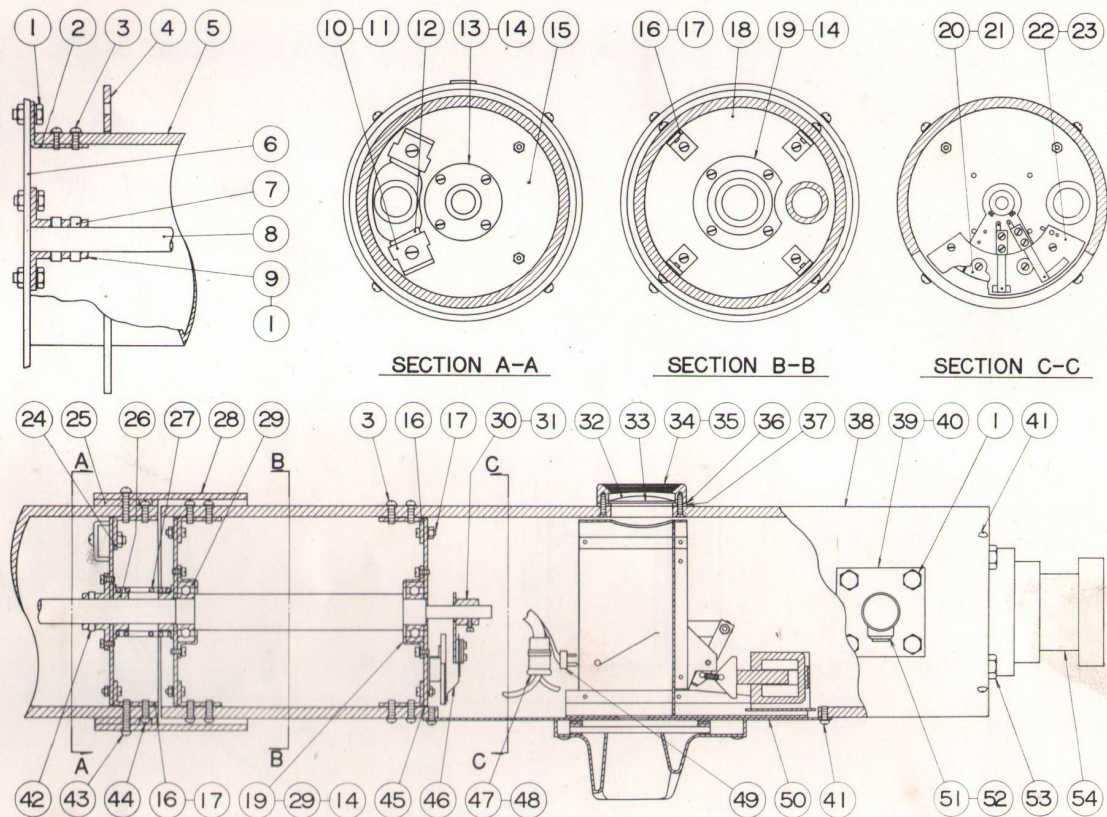
Item	Part No.	Description	Item	Part No.	Description	Item	Part No.	Description	
1	PS-0755	Shoulder Screw	46	111-201	M. Screw, C.H. M4×6			(Non-Hole) M6	
2	144-017	Flat Washer 6.8-9.5×0.35		144-078	Flat Washer M4	83	122-075	Wood Screw, R.H. Phill. 4.1×16	
3	PS-0742	Rubber Foot		144-167	Lock Washer, Ext. M4		144-122	Flat Washer 4.4-16×1.6	
4	111-205	M. Screw, C.H. M4×20	47	PS-0729	Roof Hanger, Rear Left	84	PS-1728	Front Beam, Lower	
	144-078	Flat Washer M4	48	PS-0730	Roof Hanger, Rear Right	85	PS-1730	Beam Channel, Lower	
	111-203	M. Screw, C.H. M4×10	49	PS-7700	Back Ground Ass'y (See page 14 for details)	86	122-080	Wood Screw, R.H. Phill. 3.1×16	
5	PS-0722	Bumper Bracket	50	80309	Sticker, 240V	87	PS-1721	Veny Angle, Cadet, 30	
6	111-194	M. Screw, C.H. M3×5	51	S-91592	Terminal, 2P Barrier Type, w/Screws	88	PS-1727	Front Frame Retainer	
	111-205	M. Screw, C.H. M4×20	52	S-91361	Terminal Lug	89	S-80551	Gusset Plate, Standard	
	144-135	Lock Washer, Ext. M3	53	111-637	Hex. Bolt, for Veny Angle M6×18	90	PS-1718	Veny Angle, Cadet, 1155	
7	PS-1714	Veny Angle, Standard, 50		133-094	Hex. Nut, for Veny Angle M6	91	PS-1720	Veny Angle, Cadet, 630	
8	111-637	Hex. Bolt, for Veny Angle M6×18		122-064	Wood Screw, R.H. Phill. 3.1×13	92	PS-1711	Veny Angle, Standard, 1160	
	122-075	Wood Screw, R.H. Phill. 4.1×16	54	PS-0743	Ornament Plate, Right	93	PS-1712	Veny Angle, Standard, 245	
	133-094	Hex. Nut, for Veny Angle M6	55	PS-0744	Ornament Plate, Left	94	PS-1717	Veny Angle, Cadet, 1160	
	144-122	Flat Washer 4.4-16×1.6	56	PS-0707	Window Sash, Rear Left	95	PS-1729	Front Beam, Upper	
9	PS-0741	Light Box Bracket	57	PS-0715	Window Sash, Rear Right	96	PS-1731	Beam Channel, Upper	
10	111-637	Hex. Bolt, for Veny Angle M6×18	58	PS-0710	Guide Channel, Rear	97	122-075	Wood Screw, R.H. Phill. 4.1×16	
	122-075	Wood Screw, R.H. Phill. 4.1×16	59	PS-0740	Side Speculum		122-080	Wood Screw, R.H. Phill. 3.1×16	
	133-094	Hex. Nut, for Veny angle M6		PS-0739-A	Sea Model		144-122	Flat Washer 4.4-16×1.6	
	144-122	Flat Washer 4.4-16×1.6		PS-2051	Plamodel, "Senkan", Yamato Type	98	PS-1702	Front Pillar, Right	
	111-511	Carriage Bolt, Chromed M6×28		PS-2052	Plamodel, "Senkan", Haruna Type	99	PS-1716	Veny Angle, Cadet, 2010	
	133-003	Hex. Nut M6		PS-2053	Plamodel, "Senkan", Nagato Type	100	PS-1709	Veny Angle, Standard, 1970	
11	111-638	Carriage Bolt, Chromed M6×50		90793	Lamp Socket	101	S-80553	Cleat	
	133-043A	Wing Nut, Wing Expansion 23 (Non-Hole) M6		S-91409	Tip Connector, 1P, Red	102	PS-1710	Veny Angle, Standard, 1220	
12	PS-0734	Corner Angle, Left		S-91570	Bulb, 6V, #55, Red	103	PS-1724	Veny Flat, Cadet, 1800	
13	PS-0735	Corner Angle, Right	60	122-098	Wood Screw, R.H. Phill. 4.1×40	104	PS-1707	Side Beam, Upper Left	
14	122-078	Wood Screw, F.H. Phill. 4.1×16		111-192	M. Screw, C.H. M3×8	105	111-636	Hex. Bolt, for Veny Angle M4×10	
15	PS-8700	Light Box Ass'y (See page 15 for details)		133-029	Hex. Nut M3		122-075	Wood Screw, R.H. Phill. 4.1×16	
16	PS-0736	Window Glass	61	PS-0733	Back Plate	106	PS-1701	Front Pillar, Left	
17	PS-0704	Wooden Frame, Upper Left	62	PS-1700	Frame Construction Ass'y (See details)	107	PS-1719	Veny Angle, Cadet, 1145	
18	PS-0712	Wooden Frame, Upper Right	63	PS-2700	Target Conveyor Ass'y (See page 11 for details)	108	PS-1713	Veny Angle, Cadet, 420	
19	PS-0705	Window Sash, Upper Left		64	144-078		109	111-637	Hex. Bolt, for Veny Angle M6×18
20	PS-0713	Window Sash, Upper Right		111-198	M. Screw, C.H. M3×16		122-080	Wood Screw, R.H. Phill. 3.1×16	
21	122-065	Wood Screw, F.H. Phill. 3.5×16		133-029	Hex. Nut M3	110	PS-1715	Veny Angle, Cadet, 2110	
22	PS-0708	Guide Channel Upper		65	PS-0709	Guide Channel Lower	111	S-80552	Gusset Plate, Cadet
23	111-225	M. Screw, F.H. M3×4		66	PS-0701	Wooden Frame, Lower Left	112	PS-1703	Rear Pillar, Left
24	PS-0731	Roof		67	PS-0702	Wooden Frame, Lower Right	113	PS-1726	Veny Flat, Cadet, 500
25	PS-0732	Roof Plate, Rear		68	PS-0706	Window Sash, Lower Left	114	PS-1705	Side Beam, Lower Left
26	PS-3700	Periscope Ass'y (See page 12 for details)		69	PS-0714	Window Sash, Lower Right	115	PS-1706	Side Beam, Lower Right
	111-637	Hex. Bolt, for Veny Angle M6×18		91227	Base, Sea Model	116	M-163-4(L)	Leg Adjuster	
	133-094	Hex. Nut, for Veny Angle M6		91536	Lamp Socket w/Clamp	117	133-006	Hex. Nut 3/8-16	
27	111-138	Hex. Bolt M8×45		20SP-20	Lamp Socket	118	PS-0753	Side Speculum, Left	
	133-004	Hex. Nut M8		S-90158	Plug Strip Type, 20P		80621	Sticker, Target Conveyor Motor	
	144-030	Spring Washer M8 (#3)		S-91538	Bulb, 6-8V, 6W, #81, Red	80622		Sticker, Explosion Motor	
28	PS-6700	Hatch & Coin Chute Ass'y (See page 13 for details)		S-91303	Clamp, Cord, 25m/m I.D.	80623		Sticker, Sound Echo Unit	
29	PS-0717	Wooden Frame, Front		S-91558	Lamp Socket, 250V, 6A B22D	80624		Sticker, Shot Step-Up Unit	
30	122-004	Wood Screw, R.H. Phill. 3.5×16	70	122-042	Wood Screw, R.H. Phill. 3.1×10	80625		Sticker, Score Step-Up Unit	
31	122-042	Wood Screw, R.H. Phill. 3.1×10		122-085	Wood Screw, R.H. Phill. 3.5×13	80626		Sticker, Cam Switch, 1.3.4.5.2	
32	PS-0007	Instruction Plate, 6d.		71	PS-4700	Electrical Unit Ass'y (See page 16 for details)	80627	Sticker, Illumination Motor	
33	122-064	Wood Screw, R.H. Phill. 3.1×13	72	91593	Terminal Cover, 2P	80629		Sticker, Periscope Assembly	
35	PS-0721	Periscope Bracket	73	111-636	Hex. Bolt, for Veny Angle M4×10	80630		Sticker, Service Switch	
36	111-327	Hex. Bolt M8×30		133-093	Hex. Nut, for Veny Angle M4	80631		Sticker, Service Light Connector	
	133-004	Hex. Nut M8		122-064	Wood Screw, R.H. Phill. 3.1×13	80632		Sticker, Pull to Open	
	144-054	Flat Washer M8		74	PS-0723	Side Frame Holder, #1	80633	Sticker, Pee Sound Unit	
39	111-640	Carriage Bolt, Chromed M6×60		75	PS-1725	Veny Flat, Cadet, 680	80634	Sticker, Volume Control	
	133-003	Hex. Nut M6		76	PS-1708	Side Beam, Upper Right	80635	Sticker, Torpedo & Explosion	
	133-043A	Wing Nut, Wing Expansion 23 (Non-Hole) M6		77	PS-0725	Side Frame Holder, #3	80636	Sticker, A Course Selection	
40	PS-0719	Tongue Retainer Bracket		78	PS-0724	Side Frame Holder, #2	80637	Sticker, B Course Selection	
41	PS-0720	Catch Bracket		79	PS-1704	Rear Pillar, Right	80638	Sticker, C Course Selection	
42	111-201	M. Screw, C.H. M4×6		80	111-638	Carriage Bolt, Chromed M6×50	80639	Sticker, D Course Selection	
	122-004	Wood Screw, R.H. Phill. 3.5×16			133-003	Hex. Nut M6	80640	Sticker, E Course Selection	
	144-167	Lock Washer, Ext. M4			133-043A	Wing Nut, Wing Expansion 23 (Non-Hole) M6	80641	Sticker, F Target Unit	
43	PS-0718	Guard Plate	81	PS-0726	Front Frame Holder	80642		Sticker, G Back Ground Unit 1	
44	PS-0727	Roof Hanger, Front Left	82	111-639	Carriage Bolt, Chromed M6×40	80643		Sticker, H Back Ground Unit 2	
45	PS-0728	Roof Hanger, Front Right			133-043A	Wing Nut, Wing Expansion 23	80644	Sticker, I Periscope Unit	
							80645	Sticker, J Light Box Unit	
							80646	Sticker, K Sound Unit	
							80647	Sticker, L Front Illumination	
							80648	Sticker, M Front Door	
							80649	Sticker, N Explosion Lamp	
							80650	Sticker, Sound Echo Motor	
							80651	Sticker, Timer & Flasher Unit	
							80652	Sticker, Pee Pulse	



Item	Part No.	Description	Item	Part No.	Description	Item	Part No.	Description
1	PS-2021	Spring Retainer	21	PS-2020	Shot Plunger	43	PS-2717	Main Shaft
2	111-245	M. Screw, F.H. M4×10	22	PS-2018	Shot Coil Ass'y	44	PS-2714	Spacer Post
3	S-91020	Rubber Grommet, 5φ×8φ×4.5	23	PS-2022	Compression Spring	45	111-566	M. Screw, R.H. Phill. M5×22
4	PS-2035	Moulding Bearing	24	PS-2023	Sleeve	46	144-105	Flat Washer M5
5	111-095	Hex. Bolt M6×30	25	PS-2024	Bumper Bracket	47	PS-2715	Cam Switch Ass'y
	133-003	Hex. Nut M6	26	111-194	M. Screw, C.H. M3×5		111-194	M. Screw, C.H. M3×5
	144-029	Spring Washer M6 (#3)		144-135	Lock Washer, Ext. M3		144-135	Lock Washer, Ext. M3
	144-053	Flat Washer M6	27	PS-2049	Paper Insulator	48	PS-2705	Target Shot Ass'y (See details)
6	PS-2710	Motor Sprocket	28	S-91063	Actuator, Micro Switch	49	111-203	M. Screw, C.H. M4×10
7	PS-2709	Drive Chain	29	S-91064	Switch, Micro Type		111-244	M. Screw, F.H. M4×6
8	PS-2017	Push Bar Bracket, Left	30	111-220	M. Screw, F.H. M3×16		133-017	Hex. Nut M4
9	111-195	M. Screw, C.H. M3×6		133-029	Hex. Nut M3		144-076	Spring Washer M4 (#2)
	144-135	Lock Washer, Ext. M3	31	PS-2046	Driven Sprocket	50	PS-2708	Conveyor Chain
10	PS-2712	Switch Base	32	144-065	Snap Ring, Outside Type 13 m/m	51	111-444	Set Screw, C.H., Special M4×12
11	111-636	Hex. Bolt, for Chevron Angle M4×10	33	PS-2047	Shaft, Driven Sprocket	52	PS-1717	Chevron Angle, Cadet, 1160
	133-093	Hex. Nut, for Chevron Angle M4	34	133-032	Hex. Nut M12	53	PS-2713	Cam
12	111-198	M. Screw, C.H. M3×16		144-031	Spring Washer M12 (#3)	54	PS-2703	Bearing Mounting Plate
	133-029	Hex. Nut M3	35	20SP-20	Plug, Strip Type, 20P	55	PS-2718	Drive Sprocket, Outer
	144-057	Flat Washer M3	36	PS-2711	Motor Bracket	56	PS-1722	Chevron Angle, Cadet, 290
	144-135	Lock Washer, Ext. M3	37	PS-2701	Channel Bracket, Left	57	S-90181	Clamp, Cord, Plastic, 8 m/m I.D.
13	PS-2016	Push Bar Bracket, Right	38	PS-2051	Plamodel, "Senkan", Yamato Type	58	PS-2702	Channel Bracket, Right
14	AT-4044	Shoulder Screw		PS-2052	Plamodel, "Senkan", Haruna Type	59	PS-2704	Base, Shaft Stand
15	133-029	Hex. Nut M3		PS-2053	Plamodel, "Senkan", Nagato Type	60	91496X	Motor, 220V, 240V, AC 50 Cycles, 12 R.P.M.
16	PS-2706	Chain Guide Channel	39	111-194	M. Screw, C.H. M3×5	61	111-597	M. Screw, Pan H. Phill., ISO M4×10
17	155-014	Cotter Pin 1.6×12		144-057	Flat Washer M3		111-566	M. Screw, R.H. Phill. M5×22
18	PS-2707	Target Push Bar	40	PS-2026	Target Ass'y		144-076	Spring Washer M4 (#2)
19	6U-107	Extension Spring	41	PS-2038	Drive Sprocket			
20	PS-2019	Plunger Boss	42	155-041	Roll Pin 4×36			

PARTS LIST PERISCOPE ASSEMBLY

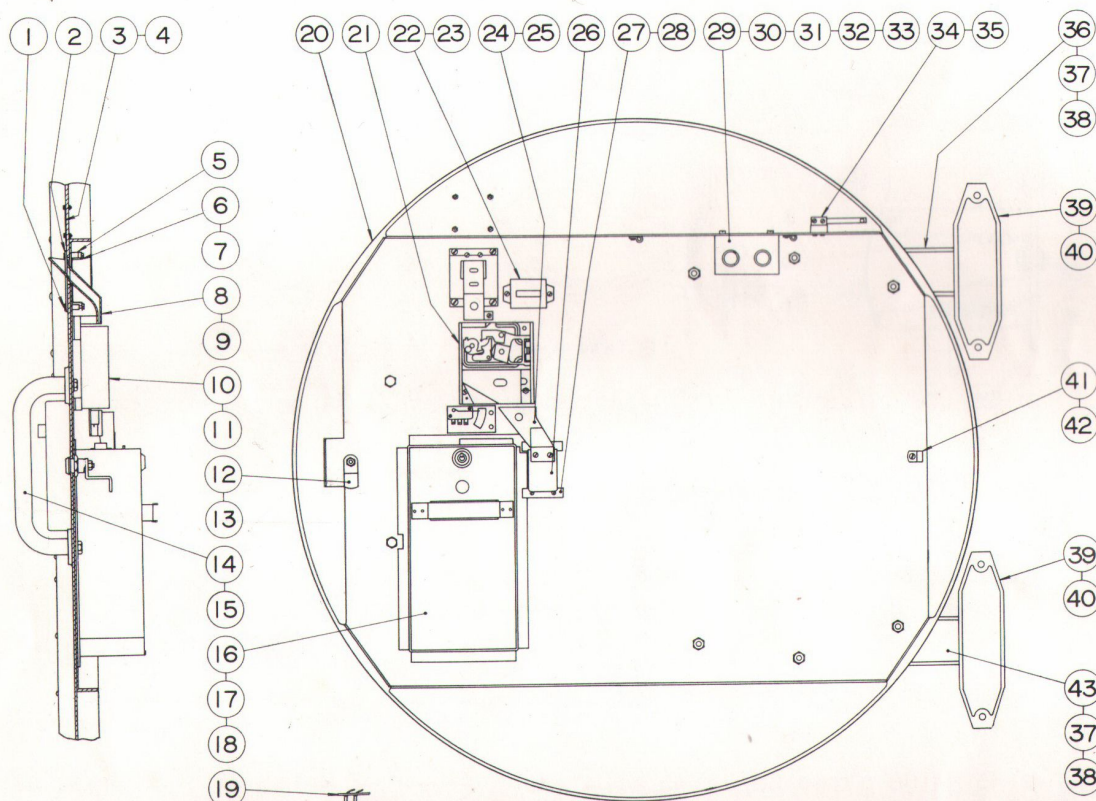
PERISCOPE



Item	Part No.	Description
1	111-531	Hex. Bolt, Black-Oxidizing M8×20
	133-004	Hex. Nut M8
	144-030	Spring Washer M8 (#3)
2	PS-3011	Top Hanger
3	111-521	M. Screw, R.H. Phill., Chromed M5×16
	144-090	Spring Washer M5 (#2)
4	PS-3701	Periscope Flange
5	PS-3014	Upper Body
6	PS-3001	Top Mounting Plate
7	155-073	Roll Pin 8×36
8	PS-3003	Shaft
9	PS-3002	Shaft Retainer, Upper
10	2P-11601	Rubber Retainer
11	111-160	M. Screw, R.H. 1/4-20×25.4
	133-008	Hex. Nut 1/4-20
12	2P-11600	Rubber Bumper
13	PS-3005	Shaft Retainer, Middle
14	111-203	M. Screw, C.H. M4×10
	144-076	Spring Washer M4 (#2)
15	PS-3004	Top Disc
16	PS-3013	Disc Hanger
17	111-204	M. Screw, C.H. M4×12
	133-017	Hex. Nut M4
	144-167	Lock Washer, Ext. M4
18	PS-3008	Flange Disc & Pipe Ass'y
19	PS-3009	Bearing Retainer
20	PS-3027	Scanning Disc Holder
21	111-202	M. Screw, C.H. M4×8

Item	Part No.	Description
21	144-167	Lock Washer, Ext. M4
22	PS-3028	Scanning Disc Ass'y
23	111-202	M. Screw, C.H. M4×8
	144-078	Flat Washer M4
24	PS-3012	Disc Hanger, Rubber Bumper
25	PS-3016	Rubber Plate
26	PS-3006	Spring Retainer
27	PS-3007	Compression Spring
28	PS-3017	Middle Body
29	S-80400	Ball Bearing 20×47×14
30	PS-3029	Scanning Wiper Arm Ass'y
31	111-443	Set Screw, C.H., Special M4×8
32	PS-3020	Lens
33	PS-3021	Target Aiming
34	PS-3019	Lens Mounting Cap
35	111-284	M. Screw, F.H. M4×16
	111-426	M. Screw, F.H. M4×20
36	PS-3022	Packing
37	PS-3023	Base, Lens Mounting Cap
38	PS-3018	Lower Body
39	PS-3024	Handle, Left
40	PS-3025	Handle, Right
41	111-520	M. Screw, R.H. Phill., Chromed M5×14
	144-090	Spring Washer M5 (#2)
42	155-072	Roll Pin 5×32
43	111-522	M. Screw, R.H. Phill., Chromed M5×25
	144-090	Spring Washer M5 (#2)

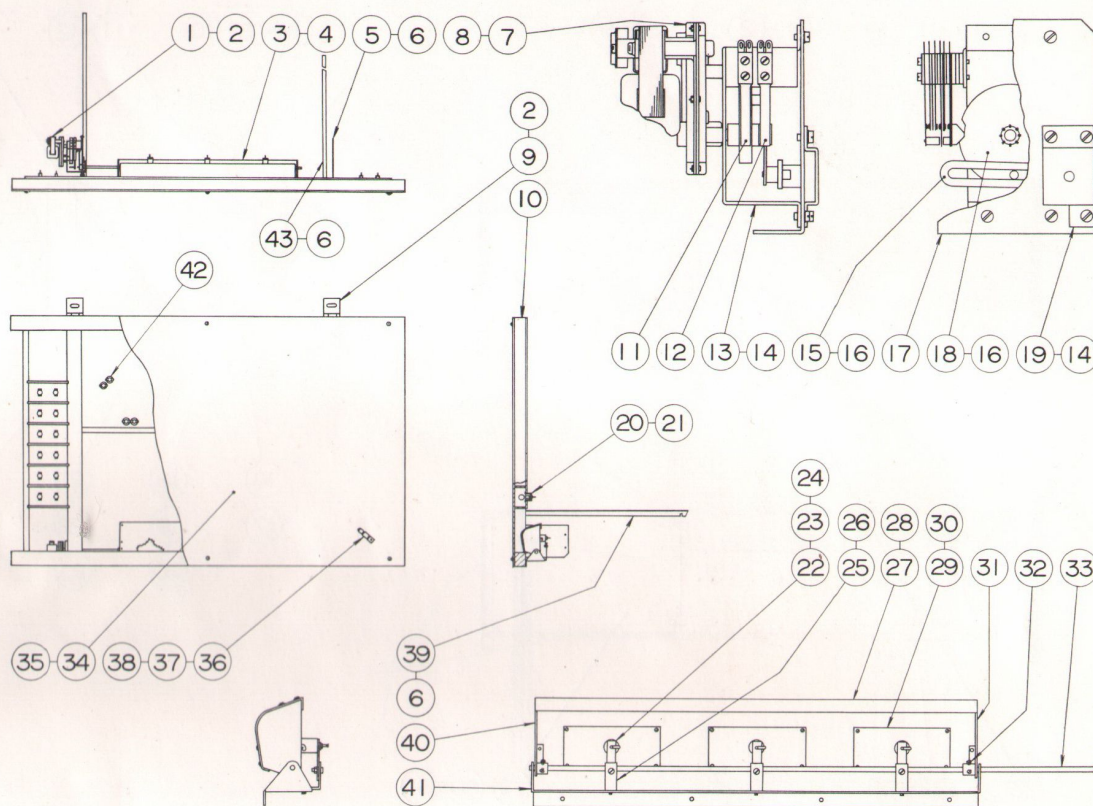
Item	Part No.	Description
44	111-530	M. Screw, T.H. Phill. M5×16
	144-090	Spring Washer M5 (#2)
45	PS-3010	Flange Disc
46	PS-3030	Scanning Wiper Switch Ass'y
47	S-91204	Socket, Small Type, 6P
48	S-91205	Plug, Small Type, 6P
49	S-91062-2	Plug, 2P
50	PS-3031	Finder & Shutter Mechanism Ass'y
51	S-91206	Switch, Push Button, Baby Type
52	111-252	Set Screw, Hex. Socket, Cup Point M3×3
53	111-532	Hex. Bolt, Black-Oxidizing M10×20
	133-027X	Hex. Nut, ISO M10
54	PS-3026	Shock Absorber



Item	Part No.	Description	Item	Part No.	Description	Item	Part No.	Description
1	JG-7116	Gland Nut	20	PS-6701	Hatch Moulding	40	111-121	Hex. Bolt M8×35
2	PS-6005X	Coin Entry, 6d.	21	CC-2008	Coin Chute, Rejector Type, 6d.×1	133-004	Hex. Nut M8	
3	PS-0008	Denomination Plate, 6d.	22	90303-50	Electric Counter Mercury Type, 4 Digits, 50V	144-132	Spring Washer M8 (#2)	
4	111-422	M. Screw, C.H. M2×8	23	111-467	M. Screw, C.H. M4×5	41	S-90591	Clamp, Cord, Plastic, 5 m/m I.D.
	133-037	Hex. Nut M2		144-167	Lock Washer, Ext. M4	42	111-467	M. Screw, C.H. M4×5
	144-165	Lock Washer, Ext. M2	24	PS-6007	Reject Chute, One Coin Type		144-078	Flat Washer M4
5	PS-4112	Spacer Tube	25	111-195	M. Screw, C.H. M3×6	43	PS-6707	Hinge Casting Arm, Lower
6	PS-6006	Coin Entry Bracket		144-057	Flat Washer M3			
7	111-203	M. Screw, C.H. M4×10		144-135	Lock Washer, Ext. M3			
	144-078	Flat Washer M4	26	JG-7422	Reject Cup			
	144-167	Lock Washer, Ext. M4	27	PS-6008	Reject Cup Holder			
8	PS-6004	Upper Coin Chute	28	111-037	M. Screw, R.H. #8-32×9.5			
9	111-240	M. Screw, C.H. M3×3		144-078	Flat Washer M4			
	111-467	M. Screw, C.H. M4×5	29	PS-6710	Volume Control Bracket			
	144-057	Flat Washer M3	30	S-90595	Knob, 22 m/m			
10	PS-6002	Coin Chute Bracket Ass'y	31	S-91541	Volume Control, A-100K Ohm			
11	111-467	M. Screw, C.H. M4×5	32	S-91542	Volume Control, A-250K Ohm			
	144-078	Flat Washer M4	33	111-195	M. Screw, C.H. M3×6			
	144-167	Lock Washer, Ext. M4		144-135	Lock Washer, Ext. M3			
12	PS-6711	Locking Tongue	34	PS-6712	Door Switch Ass'y			
13	CN-5028	Ace Cylinder Lock, Double Notch Type	35	111-195	M. Screw, C.H. M3×6			
14	PS-6708	Door Handle		133-029	Hex. Nut M3			
15	111-097	Hex. Bolt M8×20		144-135	Lock Washer, Ext. M3			
	144-132	Spring Washer M8 (#2)	36	PS-6703	Hinge Casting Arm, Upper			
16	PS-6709	Cash Box	37	PS-6705	Hinge Shaft			
17	1AB-10474-1	Ace Cylinder Lock	38	111-301	M. Screw, C.H. M6×20			
18	BJ-1008	Locking Tongue		144-115	Spring Washer M6 (#2)			
19	20SP-4	Plug, Strip Type, 4P	39	PS-6704	Hinge Casting, Basic			

PARTS LIST BACK GRAND ASSEMBLY

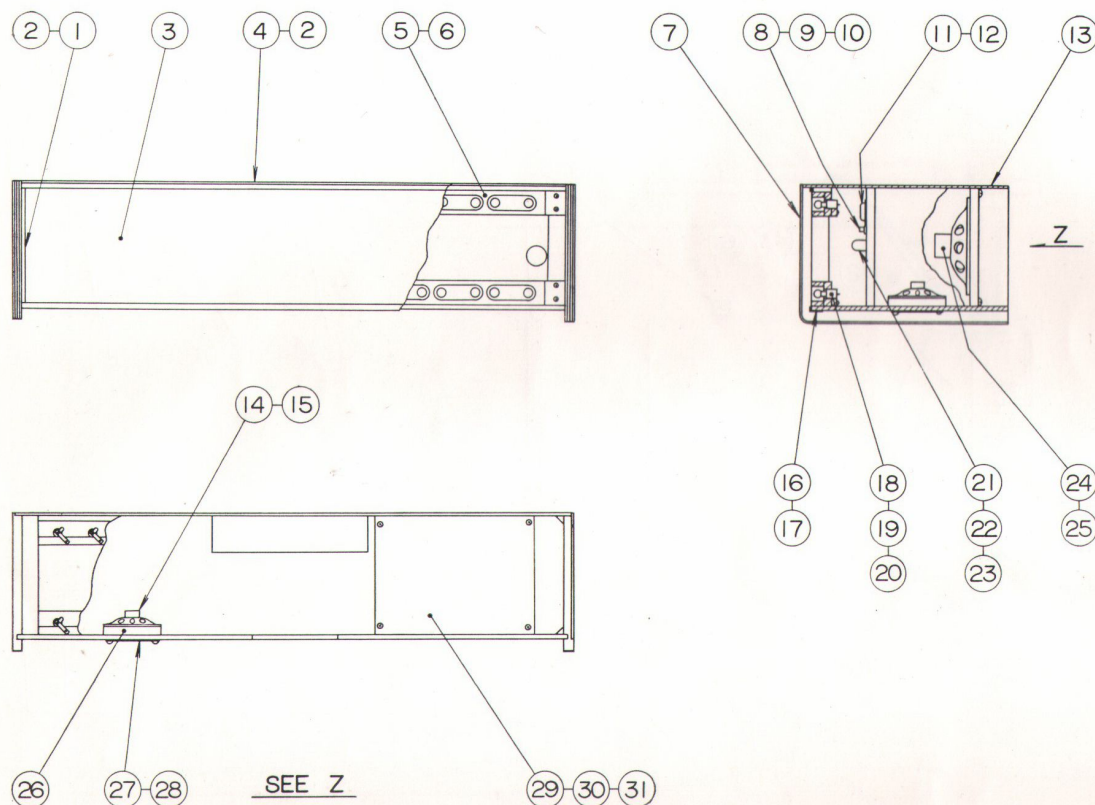
PERISCOPE



Item	Part No.	Description
1	PS-7703	Explosion Motor Ass'y (See details)
2	122-082	Wood Screw, R.H. Phill. 4.1×20
3	PS-7711	Explosion Flasher Ass'y (See details)
4	122-004	Wood Screw, R.H. Phill. 3.5×16
5	PS-7720	Hook Stay
6	122-127	Wood Screw, R.H. Phill. 4.5×25
7	144-173	Flat Washer, Small Type M4.5
7	91530	Motor, 240V, A.C. 50/60 Cycles, 16/20 R.P.M.
8	111-607	M. Screw, F.H. Phill., ISO M4×8
9	PS-7719	Hinge
10	PS-7701	Back Ground Base
11	PS-7710	Switch Ass'y, B
12	PS-7709	Switch Ass'y, A
13	PS-7704	Motor Bracket
14	111-201	M. Screw, C.H. M4×6
14	144-167	Lock Washer, Ext. M4
15	PS-7708	Guide Lever Ass'y
16	111-443	Set Screw, C.H., Special M4×8
17	PS-7705	Main Bracket
18	PS-7707	Cam Ass'y
19	PS-7706	Support Bracket
20	91227	Lamp Socket w/Clamp
21	S-90158	Bulb, 6V #55
22	91532	Lamp Socket
23	S-91533	Point Lamp, 6V, 3A
24	111-192	M. Screw, C.H. M3×8
24	133-029	Hex. Nut M3

Item	Part No.	Description
24	144-057	Flat Washer M3
24	144-135	Lock Washer, Ext. M3
25	PS-7717	Lamp Bracket
26	111-194	M. Screw, C.H. M3×5
26	144-135	Lock Washer, Ext. M3
27	PS-7712	Explosion Lamp Cover
28	111-342	M. Screw, C.H. M4×4
28	144-167	Lock Washer, Ext. M4
28	144-078	Flat Washer M4
29	PS-7718	Explosion Model
30	111-187	M. Screw, C.H. M2×5
30	133-037	Hex. Nut M2
30	144-165	Lock Washer, Ext. M2
31	PS-7713	Side Plate, Right
32	111-443	Set Screw, C.H., Special M4×8
33	PS-7716	Shaft
34	PS-7702	Score Board
35	122-073	Wood Screw, F.H. Phill. 3.1×13
36	90793	Lamp Socket
37	S-91568	Bulb, 6V, 0.3A
38	111-192	M. Screw, C.H. M3×8
38	133-029	Hex. Nut M3
39	PS-7721	Holding Stay
40	PS-7714	Side Plate, Left
41	PS-7715	Explosion Lamp Bracket
42	S-90821	Bulb, 6-8V
43	PS-7722	Holding Stay, Left

SEGA PARTS CATALOG

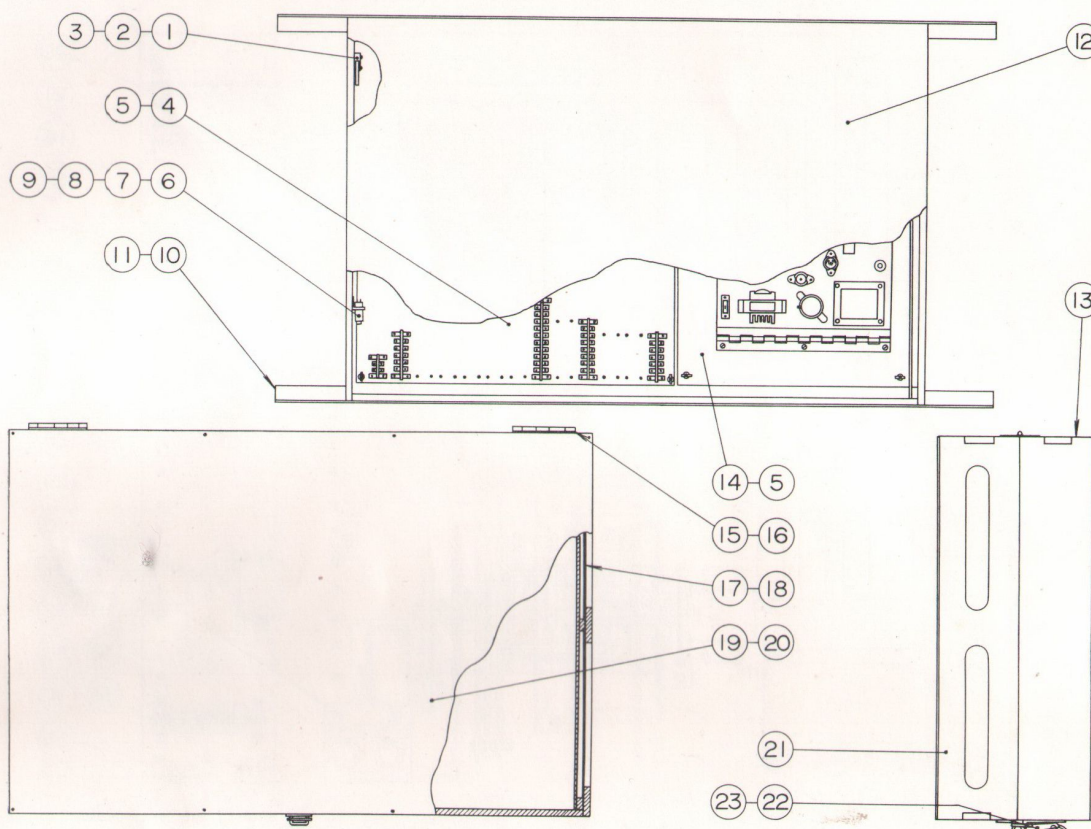


Item	Part No.	Description
1	PS-8705	Panel Guide, Side
2	122-095	Wood Screw, F.H. Phill. 2.4×6.3
3	PS-8707	Illumination Board
4	PS-8704	Panel Guide, Upper
5	PS-8703	Lamp Housing
6	122-110	Wood Screw, R.H. Phill. 3.5×25
7	PS-8702	T. Edge, 2 Grooves, Aluminum 19×10.5
8	S-90264	Socket, Fluorescent, Starter, Bayonet Type
9	S-90244	Starter, Fluorescent Bayonet Type, FG-1P
10	122-080	Wood Screw, R.H. Phill. 3.1×16
11	91534	Ballast Coil, 240V, 15W 50 Cycles, Strip Type
12	122-080	Wood Screw, R.H. Phill. 3.1×16
	144-070	Flat Washer M3.5
13	PS-8701	Light Box
14	S-91360	Speaker, 8.4 cm, 8 Ohm
15	122-004	Wood Screw, R.H. Phill. 3.5×16
	144-078	Flat Washer M4
16	PS-8706	Edge, Light Box
17	122-076	Wood Screw, F.H. Phill. 3.1×10
18	91531	Lamp Socket Ass'y
19	S-90158	Bulb, 6V #55
20	122-064	Wood Screw, R.H. Phill. 3.1×13
21	S-90260	Socket, Fluorescent Light, Spring Type
22	S-90201	Fluorescent Light, 15W
23	111-323	M. Screw, C.H. M4×32

Item	Part No.	Description
23	133-045	Square Nut M4-8.5×2
	144-078	Flat Washer M4
24	S-91540	Speaker 20cm
25	122-109	Wood Screw, R.H. Phill. 4.5×20
	144-173	Flat Washer, Small Type M4.5
26	PS-8710	Speaker Board, Small
27	PS-8711	Hole Cover
28	122-004	Wood Screw, R.H. Phill. 3.5×16
29	PS-8708	Speaker Board, Large
30	PS-8709	Speaker Guard Plate
31	122-110	Wood Screw, R.H. Phill. 3.5×25
	144-078	Flat Washer M4

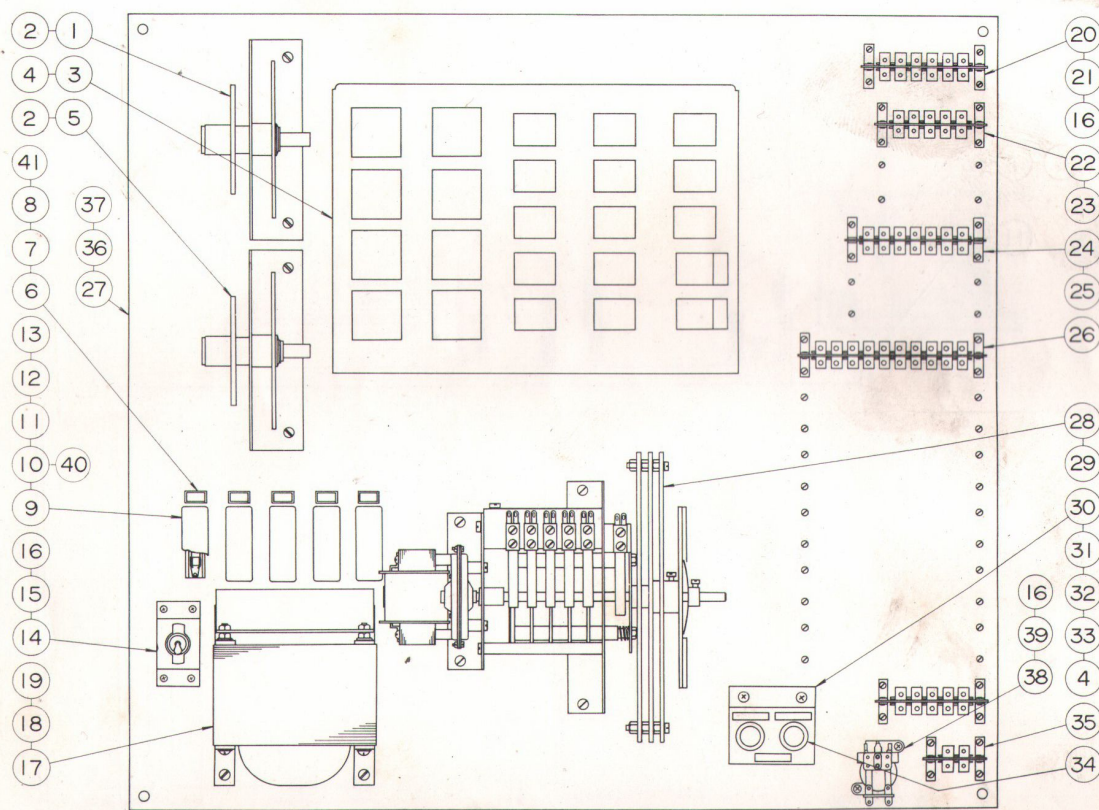
PARTS LIST ELECTRICAL UNIT ASSEMBLY (1)

PERISCOPE



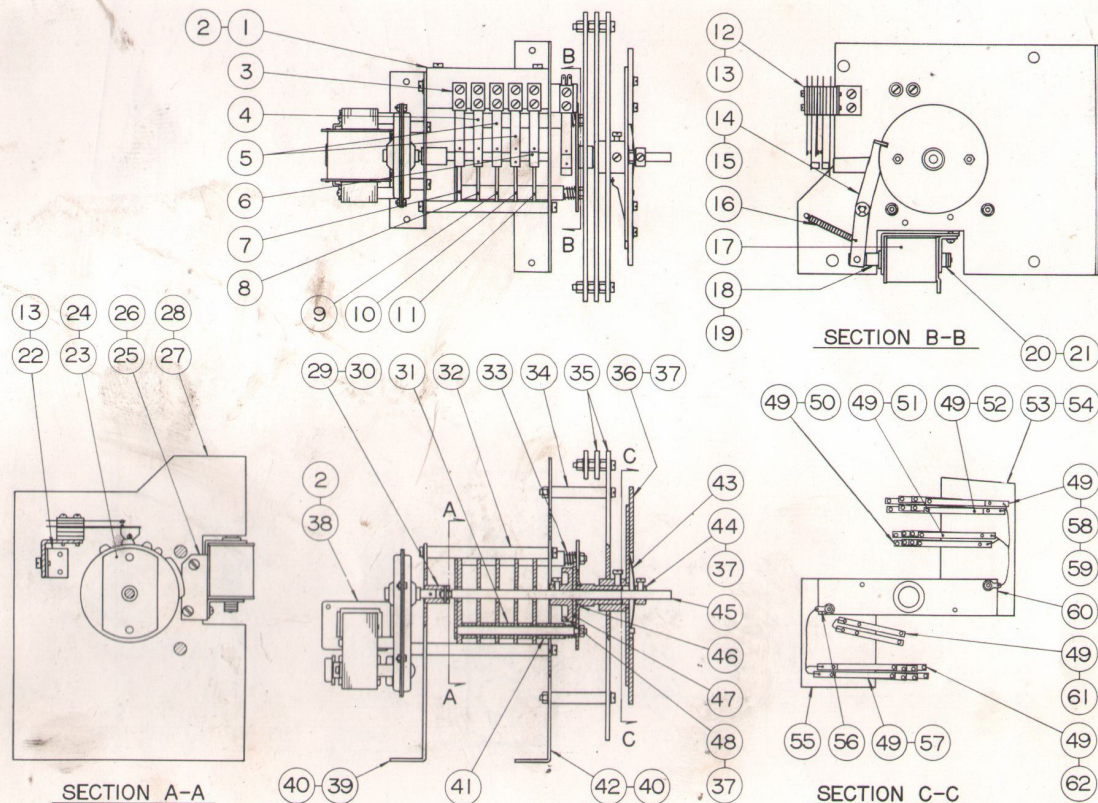
Item	Part No.	Description
1	RM-2065	Switch Actuator
2	S-91420	Switch, Micro Type
3	122-120	Wood Screw, R.H. Phill. 2.7×20
4	PS-4707	Electrical Unit Ass'y, #1 (See page 17 for details)
5	111-383	Carriage Bolt M6×35
	133-043A	Wing Nut, Wing Expansion 23 (Non-Hole) M6
6	OL-1003	Connector Bracket
7	S-91149-1	Socket, Block Type, 2P w/Screw, Nut
8	S-91149-2	Plug, Block Type, 2P
9	122-085	Wood Screw, R.H. Phill. 3.5×13
10	PS-1723	Chevron Angle, Cadet, 1240
11	122-074	Wood Screw, R.H. Phill. 4.1×13
	144-122	Flat Washer 4.4-16×1.6
12	PS-4701	Case Ass'y (See details)
13	PS-4702	Case, Bottom
14	PS-4729	Electrical Unit Ass'y, #2 (See page 20 for details)
15	PS-4705	Hinge
16	111-287	Carriage Bolt, Chromed M5×22 S=17
	133-033	Hex. Nut M5
	144-105	Flat Washer M5
17	PS-4704	Guide Plate
18	122-042	Wood Screw, R.H. Phill. 3.1×10
19	PS-4706	Lid Plate
20	122-042	Wood Screw, R.H. Phill. 3.1×10
	144-057	Flat Washer M3

Item	Part No.	Description
21	PS-4703	Case, Lid
22	S-80213-1	Toggle Hook, Hook
23	122-076	Wood Screw, F.H., Phill. 3.1×10



Item	Part No.	Description
1	PS-4722	Shot, Step-Up Unit Ass'y (See page 19 for details)
2	111-272	M. Screw, C.H. M4×16
	133-073	T-Nut M4
	144-076	Spring Washer M4 (#2)
	144-078	Flat Washer M4
3	PS-4724	Relay Unit Ass'y (See page 19 for details)
4	122-004	Wood Screw, R.H. Phill. 3.5×16
5	PS-4718	Score Step-Up Unit Ass'y (See page 19 for details)
6	80426	Sticker, 5 Ampere
7	80423	Sticker, 1 Ampere
8	80428	Sticker, 10 Ampere
9	S-91164	Fuse Holder w/Cover 250V-10A
10	S-90661	Fuse, 5 Ampere, 6.4φ×30mm
11	S-90645	Fuse, 1 Ampere, 6.4φ×30mm
12	S-90655	Fuse, 10 Ampere, 6.4φ×30mm
13	122-089	Wood Screw, R.H. Phill. 4.1×25
14	PS-4745	Switch Bracket
15	S-91390	Switch Toggle, SP-ST 15A
16	122-064	Wood Screw, R.H. Phill. 3.1×13
17	91537	Power Transformer, 100~240V 7V 10A, 6-50V 5A
18	PS-4743	Cover Transformer
19	111-309	M. Screw, C.H. M5×18
	133-074	T-Nut M5
	144-105	Flat Washer M5
	133-017	Hex. Nut M4
20	20SS-12	Socket, Strip Type, 12P

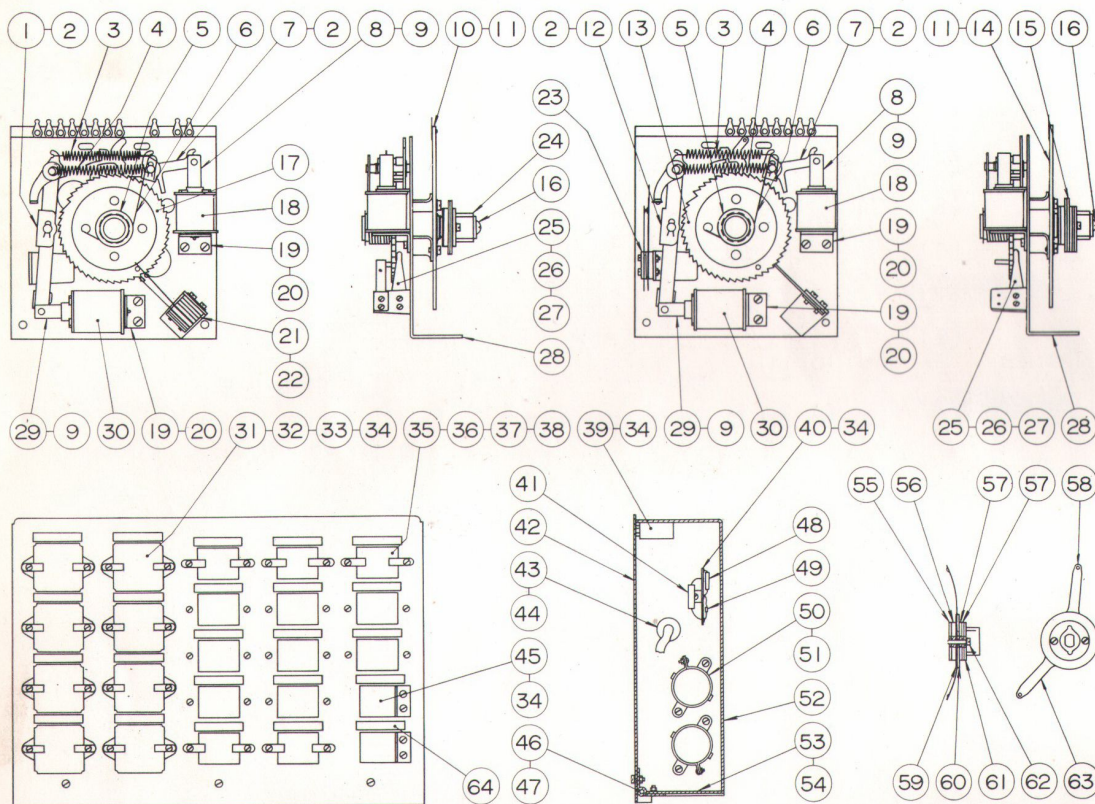
Item	Part No.	Description
21	20SP-12	Plug, Strip Type, 12P
22	20SS-10	Socket, Strip Type, 10P
23	20SP-10	Plug, Strip Type, 10P
24	20SS-14	Socket, Strip Type, 14P
25	20SP-14	Plug, Strip Type, 14P
26	20SS-20	Socket, Strip Type, 20P
27	PS-4708	Base, Electrical Unit, #1
28	PS-4709	Timer & Flasher Unit Ass'y (See page 18 for details)
29	111-272	M. Screw, C.H. M4×16
	133-073	T-Nut M4
	144-076	Spring Washer M4 (#2)
	144-105	Flat Washer M5
30	PS-4744	Switch Bracket, Double
31	80582	Sticker, Shot Switch
32	80581	Sticker, Start Switch
33	80580	Sticker, Test Switch
34	S-91206	Switch, Push Button, Baby Type
35	20SS-4	Socket, Strip Type, 4P
36	S-91293	Resistor, 8-16 Ohm 10W, Wire Round, w/Bracket
37	S-90914	Condenser, 100 MFD, 10WV
38	80491	Sticker, Safety Relay
39	S-91579	Safety Relay
40	S-91151	Fuse, 8 Ampere 6.4φ×30mm
41	80427	Sticker, 8 Ampere



Item	Part No.	Description
1	PS-4105	Cam Switch Bracket
2	111-201	M. Screw, C.H. M4×6
	144-167	Lock Washer, Ext. M4
3	PS-4716	Cam Switch Ass'y #1
4	PS-4119	Cam Switch Ass'y, #2
5	PS-4118	Cam Switch Ass'y, #1, 3, 5
6	PS-4717	Cam Switch Ass'y, #2
7	PS-4715	Cam #1
8	PS-4109	Cam #3
9	PS-4110	Cam #4
10	PS-4111	Cam #5
11	PS-4108	Cam #2
12	PS-4121	Timer Switch Ass'y
13	111-195	M. Screw, C.H. M3×6
	144-135	Lock Washer, Ext. M3
14	AT-8107	Index Dog Ass'y Timer Unit
15	144-173	Flat Washer, Small Type M4.5
	144-172	E Washer 3m/m
	144-102	E Washer 4m/m
	144-098	Flat Washer, Small Type M5
16	6U-107	Extension Spring
17	201C07	Coil, Ascot JP Flasher Unit
18	90780	Step-UP Plunger
19	90781	Plunger Ring
20	90071	Coil Stop
21	111-023	M. Screw, R.H. #6-32×6.4
	144-166	Lock Washer, Ext. M3.5
22	PS-4104	Bracket Angle
23	PS-4106	Cam Retainer

Item	Part No.	Description
24	144-078	Flat Washer M4
	133-062	Nylon Nut 4m/m
25	PS-4129	Coil Bracket
26	111-201	M. Screw, C.H. M4×6
	144-078	Flat Washer M4
	144-167	Lock Washer, Ext. M4
27	PS-4712	Timer & Flasher Disc Ass'y
28	111-257	M. Screw, C.H. M4×25
	111-499	M. Screw, C.H. M4×50
	133-017	Hex. Nut M4
	144-078	Flat Washer M4
	144-167	Lock Washer, Ext. M4
29	PS-4116	Connection Sleeve
30	155-026	Roll Pin 2×12m/m
31	PS-4112	Spacer Tube
32	PS-4103	Spacer Post
33	PS-4114	Compression Spring
34	PS-4123	Spacer Tube
35	PS-4128	Terminal Plate
36	PS-4713	Brush Arm Ass'y, Timer & Flasher Unit (See details)
37	111-443	Set Screw, C.H., Special M4×8
38	91218	Motor, 20 RPM, 240V, 50 Cycle
39	PS-4102X	Timer Unit Motor Bracket
40	111-203	M. Screw, C.H. M4×10
	144-078	Flat Washer M4
	144-167	Lock Washer, Ext. M4
41	PS-4113	Spacer Tube

Item	Part No.	Description
42	PS-4101X	Timer Unit Disc Bracket Ass'y
43	AT-8105	Brush Arm Tension Spring
44	AT-8106	Timer Shaft Collar
45	PS-4117	Shaft
46	PS-4115	Stop Disc Ass'y
47	AT-8103	Leather, Clutch Disc
48	AT-8102	Clutch Pulley
49	90023	Contact Point, Half Round
50	91209	Contact Blade, C
51	91210	Contact Blade, D
52	91213	Contact Blade, G
53	PS-4127	Blade Retainer
54	111-192	M. Screw, C.H. M3×8
	111-196	M. Screw, C.H. M3×10
	133-029	Hex. Nut M3
	144-057	Flat Washer M3
55	PS-4714	Blade Retainer, Short
56	S-90465	Terminal Lug, Tie Point Type 13×0.4m/m
57	91212	Contact Blade, F
58	91214	Contact Blade, H
59	166-072	Hollow Rivet, Thin Head, Brass 2×4.5
60	PS-4126	Contact Arm Retainer Ass'y
61	91208	Contact Blade, Short
62	91211	Contact Blade, E



Item	Part No.	Description	Item	Part No.	Description	Item	Part No.	Description
1	91250	Step-Up Arm Ass'y	29	91257	Step-Up Plunger	55	91269	Disc Washer, C
2	155-036	Hair Clip, Standard 4×12×0.65	30	219C07	Coil, Step-Up	56	91268	Blade Guide
3	91252	Extension Spring	31	S-91545-1	Relay, AC 50V Plug In Type	57	91265	Wiper Blade Washer
4	91253	Extension Spring	32	S-91545-2	Socket	58	91262	Wiper Blade, A
5	144-206	Circular External Ring M18	33	S-91545-3	Clamp, for Relay	59	91267	Slip Ring
6	91254	Reset Torsion Spring	34	111-194	M. Screw, C.H. M3×5	60	91266	Disc Washer, B
7	91251	Index Pawl	35	S-91546-1	Relay, AC, 50V Plug In Type	61	91264	Disc Washer, A
8	91256	Reset Plunger	36	S-91546-2	Socket	62	111-191	M. Screw, C.H. M3×12
9	90781	Plunger Ring	37	S-91546-3	Clamp, for Relay	63	91263	Wiper Blade, B
10	PS-4401	Shot, Contact Disc Ass'y	38	111-194	M. Screw, C.H. M3×5	64	80578	Sticker, Speaker Relay
11	111-202	M. Screw, C.H. M4×8	39	S-80565	Magnet Catch	80566		Sticker, Explosion Relay, A
12	144-078	Flat Washer M4	40	S-90860	Terminal Plate, 1L, 4P	80567		Sticker, Explosion Relay, B
13	91505	Step-Up Arm Ass'y	41	S-91451	Resistor, 5 Ohm 1W Wire Wound	80568		Sticker, Explosion Relay, C
14	PS-4719	Score Contact Disc Ass'y	42	PS-4726	Relay Base	80569		Sticker, Target Drop Relay
15	PS-4720	Score Wiper Blade Ass'y (See details)	43	S-91544-1	Socket, 9P	80570		Sticker, Start Relay, A
16	122-114	Tapping Screw, No. 1 T.H. Phill. 4×15	44	S-91544-2	Plug, 9P	80571		Sticker, Shot Relay, A
17	144-122	Flat Washer 4.4-16×1.6	45	S-91346	Relay, Miniature Type 2T	80572		Sticker, Game Relay, A
18	91278	Step-Up Gear, 7 Step-Up	46	PS-4727	Hinge	80573		Sticker, Extra Shot Relay
19	218C015	Coil, Reset	47	111-195	M. Screw, C.H. M3×6	80574		Sticker, Target Hit Relay
20	91255	Plunger Stopper Ass'y	48	133-029	Hex. Nut M3	80575		Sticker, Course Select Relay, A
21	111-363	M. Screw, C.H. M3.5×6	49	144-135	Lock Washer, Ext. M3	80576		Sticker, Course Select Relay, B
22	144-166	Lock Washer, Ext. M3.5	50	111-219	M. Screw, C.H. M3×6	80577		Sticker, Course Select Relay, C
23	PS-4723	Switch Ass'y	51	S-91551	Resistor, 20 Ohm, 1/2W	80579		Sticker, Amplifier Relay
24	91273	Blade Washer	52	S-91314	Rectifier, Silicon Diode	80588		Sticker, Start Relay, B
25	PS-4721	Switch Ass'y	53	S-90490	Condenser, 500μF, 50W. V. Electrolytic Can	80589		Sticker, Shot Relay, B
26	PS-4402	Shot, Wiper Blade Ass'y	54	111-194	M. Screw, C.H. M3×5	80590		Sticker, Game Relay, B
27	91258	Spring Stop	55	144-135	Lock Washer, Ext. M3	80591		Sticker, Course Select Relay, D
28	90563	Switch End Plate	56	144-057	Flat Washer M3	80592		Sticker, Explosion Relay, D
	111-195	M. Screw, C.H. M3×6	57	PS-4725	Chassis	80593		Sticker, Explosion Relay, E
	144-135	Lock Washer, Ext. M3	58	PS-4728	Hinge Mounting Plate	80594		Sticker, Explosion Relay, F
	91249	Base Plate Ass'y	59	111-201	M. Screw, C.H. M4×6			
			60	144-167	Lock Washer, Ext. M4			